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Interactive comment on “Cold smoke: smoke-induced density currents cause unexpected smoke transport near large wildfires” by N. P. Lareau and C. B. Clements

Anonymous Referee #2

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The authors do an excellent job of describing a phenomena that has received little attention in the past, the potential for smoke to modify atmospheric dynamics in complex terrain. This is something that is completely neglected in current operational tools being used to predict smoke impacts and fire behavior. The authors show that smoke provides a non-negligible radiative forcing that significantly alters boundary layer structure and flow. This paper will serve as an excellent reference for future work seeking to model this phenomena.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 17945, 2015.

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